

Patent
Attorney Docket No. 021565-075

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of
Frank Meulewaeter et al.

Application No.: 09/551,494

Filing Date: April 18, 2000

Title: METHODS AND MEANS FOR DELIVERING INHIBITORY RNA TO PLANTS AND APPLICATIONS
THEROF

MAIL STOP RCE

Group Art Unit: 1638

Examiner: Ashwin D Mehta

Confirmation No.: 2755

SECOND
INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Enclosed is a **SECOND** Information Disclosure Statement and accompanying form
PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge _____ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of _____ is enclosed for the fee due.
- ☐ Charge _____ to credit card. Form PTO-2038 is attached.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BUCHANAN INGERSOLL PC

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By

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Date: January 12, 2006

Buchanan Ingersoll PC

ATTORNEYS

Including attorneys from Burns Doane Swecker & Mathis

(8/05)



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Frank Meulewaeter et al.)	
Application No.: 09/551,494)	Group Art Unit: 1638
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For: METHODS AND MEANS FOR)	Confirmation No.: 2755
DELIVERING INHIBITORY RNA TO)	
PLANTS AND APPLICATIONS)	
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SECOND INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

The information is submitted before the mailing of a first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114. Continued examination is requested and the fee required under 37 C.F.R. § 1.17(e) accompanies the present submission.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

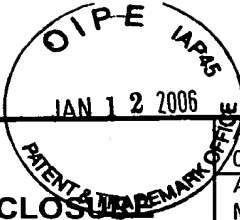
Respectfully submitted,

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Substitute for forms 1449A/PTO & 1449B/PTO

**SECOND INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

ATTORNEY'S DKT No.

021565-075

APPLICATION No.

09/551,494

APPLICANT

Meulewaeter et al

FILING DATE

April 18, 2000

GROUP

1635

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation Yes No

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	E. Rodriguez-Cerezo et al., "Genetic Heterogeneity of the RNA Genome Population of the Plant Virus U5-TMV", <i>Virology</i> , vol. 170, p. 418-423 (1989) Academic Press, Inc. San Diego, California USA
	C. Kearney et al., "Low Level of Genetic Drift in Foreign Sequences Replicating in an RNA Virus in Plants", <i>Virology</i> , vol. 192, p. 11-17 (1993) Academic Press, Inc. San Diego, California USA
	G. Kurath et al., "RNase Protection Analyses Show High Genetic Diversity among Field Isolates of Satellite Tobacco Mosaic Virus", <i>Virology</i> , vol. 194, p. 414-418 (1993) Academic Press, Inc. San Diego, California USA
	G. Kurath et al., "Tobamovirus Helper Specificity of Satellite Tobacco Mosaic Virus Involves a Domain Near the 5' End of the Satellite Genome", <i>Journal of General Virology</i> , vol. 74, p. 1233-1243 (1993) SGM, Reading, United Kingdom
	G. Kurath et al., "Mutation Analyses of Molecularly Cloned Satellite Tobacco Mosaic Virus During Serial Passage in Plants: Evidence for Hotspots of Genetic Change", <i>RNA</i> , vol. 1, p. 491-500 (1995), RNA Society, Palo Alto, California
	F. Garcia-Arenal et al., "Variability and Genetic Structure of Plant Virus Populations", <i>Annu. Rev. Phytopathol.</i> 2001, vol. 39, p. 157-86, <i>Annual Reviews</i> , Palo Alto, California
	R. Joshi et al., "Strategies for Expression of Foreign Genes in Plants", <i>FEBS</i> , vol. 281, no. 1,2, p. 1-8, Elsevier Science Publishers B.V., Oxford, United Kingdom
	J. Donson et al., "Systemic Expression of a Bacterial Gene by a Tobacco Mosaic Virus-Based Vector", <i>Proc. Natl. Acad. Sci USA</i> , vol. 88, p. 7204-7208 (Aug 1991) Genetics, Chicago, Illinois
	D. Baulcombe et al., "Fast Forward Genetics Based on Virus-Induced Gene Silencing", <i>current Opinion in Plant Biology</i> , vol. 2, p. 108-113 (1999), Elsevier Science Ltd. ISSN 1369-5266, Oxford, United Kingdom
	J. Lindbo et al., "Virus-Mediated Reprogramming of Gene Expression in Plants", <i>Current Opinion in Plant Biology</i> 2001, vol. 4, p. 181-185, Elsevier Science Ltd., Oxford, United Kingdom
	M. Ruiz et al., "Initiation and Maintenance of Virus-Induced Gene Silencing", <i>The Plant Cell</i> , vol. 10, p. 937-946 (1998), The American Society of Plant Physiologists, Rockville, Maryland
	G. Routh et al., "Characterization of Deletion and Frameshift Mutants of Satellite Tobacco Mosaic Virus", <i>Virology</i> , vol. 212, p. 121-127 (1995), Academic Press, Inc. San Diego, California USA
	T. Mirkov et al., "Factors Affecting Efficient Infection of Tobacco with <i>in Vitro</i> RNA Transcripts from Cloned cDNAs of Satellite Tobacco Mosaic Virus", <i>Virology</i> , vol. 179, p. 395-402 (1990), Academic Press, Inc. San Diego, California USA
	M. Kumagai et al., "Cytoplasmic Inhibition of Carotenoid Biosynthesis with Virus-Derived RNA", <i>Proc. Natl. Acad. Sci., USA</i> , vol. 92, p. 1679-1683, (Feb 1995), Genetics, Chicago, Illinois
	W. Qiu et al., "Defective Interfering RNAs of a Satellite Virus", <i>Journal of Virology</i> , June 2001, p. 5429-5432, American Society for Microbiology, Washington, D.C.
	A. Simon, "Satellite RNAs of Plant Viruses", <i>Plant Molecular Biology Reporter</i> , vol. 6(4), p. 240-252 (1988)

Examiner
SignatureDate
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.